DERWENT-ACC-NO: 1985-042289

DERWENT-WEEK: 198507

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TITLE: Tungsten carbide based cutting tool alloy - includes titanium tungsten carbide(s) and carbonitride, tantalum and niobium carbides and cobalt

PATENT-ASSIGNEE: MITSUBISHI METAL CORP[MITV]

PRIORITY-DATA: 1983JP-0110608 (June 20, 1983)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 60002646 A	January 8, 1985	N/A	009	N/A
JP 86041979 B	September 18, 1986	N/A	000	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 60002646A	N/A	1983JP-0110608	June 20, 1983

INT-CL (IPC): C22C029/02

ABSTRACTED-PUB-NO: JP 60002646A

BASIC-ABSTRACT:

Alloy comprises (a) 5-15wt.% Co, (b) 5-50wt.% (Ti, W)C, (c) 50wt.% (Ti, W)CN, (d) 1-15wt.% TaC, NbC and/or (Ta, Nb)C, and (e) the balance of WC and impurities. The hard dispersion phase comprises a ternary phase of (i) WC, (ii) (Ti, W, Ta/Nb)C and (iii) (Ti, W, Ta/Nb)CN.

Typically raw materisl powders were triturated and blended and then

press-moulded to obtain a shaped body, which was then sintered at 1480 deg.C in vacuum for 2 hours.

USE/ADVANTAGE - The alloy has high hardness and high toughness and good abrasion resistance and impact resistance.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: TUNGSTEN CARBIDE BASED CUT TOOL ALLOY TITANIUM TUNGSTEN CARBIDE CARBONITRIDE TANTALUM NIOBIUM COBALT

DERWENT-CLASS: L02 M22

CPI-CODES: L02-H02A; L02-J01B; M22-H03G;

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1985-018564